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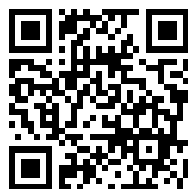
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# FIRST CATALOGUE

OF THE

## American Society of Mechanical Engineers.



ORGANIZED APRIL 7, 1880.



OFFICERS, MEMBERS AND RULES.



SEPTEMBER, 1880.

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OFFICERS  
OF THE  
American Society of Mechanical Engineers.

(ELECTED APRIL 7th, 1880.)

---

PRESIDENT.

ROBERT H. THURSTON,  
Stevens Institute of Technology, Hoboken, N. J.

---

VICE-PRESIDENTS.

HENRY R. WORTHINGTON.....New York.  
COLEMAN SELLERS.....Philadelphia, Pa.  
ECKLEY B. COXE. . . . .Drifton, Pa.  
QUINCY A. GILLMORE.....U. S. Army.  
WM. H. SHOCK.....U. S. Navy.  
ALEXANDER L. HOLLEY.....New York.

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FRANCIS A. PRATT.....Hartford, Conn.  
CHARLES B. RICHARDS.....Hartford, Conn.  
S. B. WHITING.....Pottsville, Pa.

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TREASURER.

LYCURGUS B. MOORE, 96 Fulton Street, New York.

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NOTE.—Pending the appointment of a permanent Secretary, all correspondence relating to this Society should be addressed either to the President or the Treasurer.

[Any change of Address should be promptly sent to the Treasurer.]

## LIFE MEMBERS.

<i>Name.</i>	<i>Address.</i>
EDISON, THOMAS A.....	Menlo Park, N. J.
NORMAN, GEORGE H.....	Boston, Mass. or Newport, R. I.

## MEMBERS.

ALLEN, JOHN F.....137th Street, cor. College Avenue, New York.  
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BILLINGS, CHARLES E.....(Billings & Spencer Co.) Hartford, Conn.  
BROUGH, REDMOND J.....Water Works Dep't, Toronto, Ont.  
BROWN, C. H.....(C. H. Brown & Co.) Fitchburg, Mass.  
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BURDEN, JAMES A.....(Burden Iron Works), Troy, N. Y.  
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COOPER, JOHN H.... 135 Wister Street, Germantown, Philadelphia, Pa.  
COPELAND, CHARLES W.....24 Park Place, New York.  
COPELAND, GEORGE M.....24 Park Place, New York.  
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GILLMORE, GEN. QUINCY A. ( <i>Vice-President</i> ).	Army Building, Greene and Houston Streets, New York.
GORDON, ALEX.	(Niles Tool Works), Hamilton, Ohio.
GORDON, FRED W.	173 Wood Street, Pittsburgh, Pa.
GOUBERT, AUGUSTE A. (Care Matthiessen & Wiechers Sugar Refining Co.)	Jersey City, N. J.
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GREENLEAF, C. A.	Indianapolis, Ind.
GRIMSHAW, ROBERT.	212 South 8th Street, Philadelphia, Pa.
HAGUE, CHARLES A.	291 W. Monroe Street, Chicago, Ill.
HAYWARD, H. S., Ass't Sup't Motive Power, United Railroads Div., P. R. R.,	Jersey City, N. J.
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HERRICK, J. A.	(Care Anderson & Co.) Pittsburgh, Pa.
HEWITT, WM.	(Trenton Iron Co.) Trenton, N. J.
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SEE, HORACE, (Care Wm. Cramp & Sons Ship and Engine Building Co.)	Philadelphia, Pa.
SEE, JAMES W.....	Hamilton, Ohio.
SELLERS, COLEMAN, ( <i>Vice-President</i> )....	(Wm. Sellers & Co.) Philadelphia, Pa.
SELLERS, WM.....	(Wm. Sellers & Co.) Philadelphia, Pa.
SHOCK, WM. H. ( <i>Vice-President</i> )..	Engineer-in-Chief, Bureau of Steam Engineering, U. S. Navy Dep't, Washington, D. C.
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SOULE, RICHARD H., Sup't Motive Power, N. C. and B. & P. Railroads,	Baltimore, Md.
STEARNS, ALBERT.....	596 Lorimer Street, Station G, Brooklyn, N. Y.
STERLING, ALLAN.....	Mill Point. Ont.
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STONE, HENRY B., Sup't Loco. and Car Dep'ts, C., B. & Q. R. R.,	Aurora, Ill.
STRONG, GEORGE S..	(Care Kelly & Ludwig), 720 Filbert St., Philadelphia, Pa.
SWASEY, AMBROSE....	(Warner & Swasey), 249 South Canal Street, Chicago, Ill.
SWEET, JOHN E.....	(Straight Line Engine Co.) Syracuse, N. Y.
SWEETLAND, WM. L.....	126 Union Street, New Haven, Conn.
TABOR, HARRIS.....	Corning, Steuben Co., N. Y.
THOMAS, EDWARD W.....	Willimantic, Conn.
THOMPSON, CHARLES T. (Care I. P. Morris Co.)	1057 Richmond Street, Philadelphia, Pa.
THOMPSON, WM. H.....	1514 Hough Avenue, Cleveland, Ohio.
THURSTON, ROBERT H. ( <i>President</i> ), Prof. Mech. Eng. Stevens Institute of	Technology, Hoboken, N. J.
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WARNER, WORCESTER R. (Warner & Swasey),	249 South Canal St., Chicago, Ill.
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WEBBER, SAMUEL.....	Consulting Engineer, Manchester, N. H.
WEBBER, SAMUEL S., Sup't Roy Stone Hydraulic Mining and Dredging Co.,	Oroville, Cal.
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WEIGHTMAN, W. H.....	85 Astor House, New York.
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WHITING, S. B. ( <i>Manager</i> ),	Chief Engineer Phil. & Reading Coal and Iron Co., Pottsville, Pa.
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WILDER, MOSES G.....	55 Boerum Place, Brooklyn, N. Y.
WILEY, WM. H.....	15 Astor Place, New York.
WOLFF, ALFRED R.....	85 Astor House, New York.
WOODBURY, C. J. H.....	131 Devonshire Street, Boston, Mass.
WOODBURY, L. S.,	Chief Engineer Hecla Branch, Calumet & Hecla Mining Co., Calumet, L. S., Mich.
WORTHINGTON, HENRY R. ( <i>Vice-President</i> ).....	239 Broadway, New York.

## ASSOCIATES.

<i>Name.</i>	<i>Address.</i>
BAILEY, E. B.....	(E. Horton & Son Co.) Windsor Locks, Conn.
BAILEY, JACKSON...( <i>Care American Machinist</i> )	96 Fulton Street, New York.
HAWKINS, GARDNER C.....	36 and 38 Oliver Street, Boston, Mass.
HILL, H. A....(Hill, Clarke & Co.)	36 and 38 Oliver Street, Boston, Mass.
KEPPY, FREDERICK.....	85 Benham Avenue, Bridgeport, Conn.
MILLER, HORACE B..( <i>Care American Machinist</i> ),	96 Fulton Street, New York.
MOORE, CHARLES A..(Ashcroft Mfg Co.)	53 Sudbury Street, Boston, Mass.
MOORE, LYCURGUS B. ( <i>Treasurer</i> ), ( <i>Care American Machinist</i> ),	96 Fulton St., New York.
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RIDGELY, CHARLES.....	(Springfield Iron Co.) Springfield, Ill.
ROBBINS, E. H.....	Pittsfield, Mass.
SHARPE, LUCIAN.....	(Brown & Sharpe Manufg. Co.) Providence, R. I.
SPERRY, CHARLES.....	Westbrook, Conn.
TABER, EDWARD S. (Morse Twist Drill & Machine Co.)	New Bedford, Mass.
VANDERBILT, A....	Sup't N. Y. & Cuba S. S. Line, 113 Wall St., New York.
WOOD, WALTER....	(R. D. Wood & Co.) 400 Chestnut St., Philadelphia, Pa.
WORTHINGTON, CHARLES C.,	(Care Henry R. Worthington), 239 Broadway, New York.

## JUNIORS.

<i>Name.</i>	<i>Address.</i>
BURDSALL, ELWOOD, JR.....	Port Chester, Westchester Co., N. Y.
GIDDINGS, C. M.. (Care Charles Waters & Co.)	34 Oliver St., Boston, Mass.
HOLLERITH, HERMAN.....	161 East 61st Street, New York.
MARX, HENRY.....	13½ South Clinton Street, Rochester, N. Y.
NEFTEL, J. W. KNIGHT.....	16 East 48th Street, New York.
RIDGELY, WM. BARRET.....	(Care Springfield Iron Co.) Springfield, Ill.
SEAMAN, W. K., (Care Southwark Foundry & Machine Co.)	430 Washington Avenue, Philadelphia, Pa.
SMITH, JOHN WM....	(Care Wm. A. Sweet), Syracuse, N. Y.
WALLIS, JOHN M. ....	37 St. Paul Street, Baltimore, Md.

# RULES

OF THE

## AMERICAN SOCIETY OF MECHANICAL ENGINEERS.

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Adopted at the Meeting for Organization,  
April 7th, 1880.

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### OBJECTS.

ART. 1. The objects of the AMERICAN SOCIETY OF MECHANICAL ENGINEERS are to promote the Arts and Sciences connected with Engineering and Mechanical Construction, by means of meetings for social intercourse, and the reading and discussion of professional papers; and to circulate, by means of publications among its members the information thus obtained.

### MEMBERSHIP.

ART. 2. The Society shall consist of Members, Honorary Members, Associates, and Juniors.

ART. 3. Mechanical, Civil, Military, Mining, Metallurgical, and Naval Engineers and Architects may be candidates for Membership in this Society.

ART. 4. To be eligible as a *Member*, the candidate must have been so connected with some of the above specified professions as to be considered, in the opinion of the Council, competent to take charge of work in his department, either as a designer or constructor, or else have been connected with the same as a teacher.

ART. 5. *Honorary Members*, not exceeding 25 in number, may be elected. They must be persons of acknowledged professional eminence, who have virtually retired from practice.

ART. 6. To be eligible as an *Associate*, the candidate must have such a knowledge of, or connection with, applied science

as qualifies him, in the opinion of the Council, to co-operate with engineers in the advancement of professional knowledge.

ART. 7. To be eligible as a *Junior*, the candidate must have been in the practice of engineering for at least two years, or he must be a graduate of an engineering school.

[The term "Junior" applies to the professional experience, and not to the age of the candidate. Juniors may become eligible to Membership.]

ART. 8. All Members and Associates shall be equally entitled to the privileges of Membership, provided that Honorary Members, who are not also Members or Associates, and Juniors shall not be entitled to vote, nor to be members of the Council.

#### ELECTION OF MEMBERS.

ART. 9. All candidates for admission to the Society, excepting candidates for honorary membership, must be proposed by at least three members, or members and associates, to whom they must be personally known, and be seconded by two others; the proposal to be accompanied by a statement in writing of the grounds of their application for election, including an account of their professional service.

ART. 10. All such applications and proposals received by the Council, up to 30 days before a regular meeting, shall, at least 20 days before such regular meeting, be passed upon by the Council. The Secretary shall, at least 20 days before such regular meeting, mail to each member and associate, in the form of a letter-ballot, the names of candidates recommended by the Council for election.

ART. 11. Any member or associate entitled to vote may erase the name of any candidate, and return to the Secretary such ballot enclosed in two envelopes, the inner one to be blank and the outer one to be endorsed by the voter.

ART. 12. The rejection of any candidate for admission as member, associate or junior, by *seven* voters shall defeat the election of said candidate. The rejection of any candidate for admission as honorary member by *three* voters shall defeat the election of said candidate.

ART. 13. The said blank envelopes shall be opened by tellers in a regular meeting, and the names of candidates elected shall be then announced. The names of candidates not elected shall neither be announced nor recorded in the proceedings.

ART. 14. Candidates for admission as honorary members shall not be required to present their claims; those making the nominations shall state the grounds therefor, and shall certify that the nominee will accept, if elected. The method of election in other respects shall be the same as in case of other candidates.

ART. 15. All persons elected to the Society, excepting honorary members, must subscribe to the rules and pay to the Treasurer the entrance fee and yearly dues, before they can receive certificates of membership. If this is not done within six months of notification of election, the election shall be void.

ART. 16. The proposers of any rejected candidate may, within three months after such rejection, lay before the Council written evidence that an error was then made, and if a reconsideration is granted, another ballot shall be ordered.

ART. 17. The Council shall pass upon applications of juniors for membership, and shall order ballots upon such recommendations, in the manner hereinbefore described.

#### FEEES AND DUES.

ART. 18. The initiation fee of members and associates shall be \$15, and their annual dues shall be \$10, payable in advance at the annual meeting; *provided*, that the persons elected at the meeting following the annual meeting shall pay \$8, and persons elected at the meeting preceding the annual meeting shall pay \$4, as dues for the current year. The initiation fee of juniors shall be \$10, and their annual dues shall be \$5, payable in advance. Any member or associate may become, by the payment of \$150 at any one time, a life member or associate, and shall not be liable thereafter to annual dues.

ART. 19. Any member, associate or junior in arrears may, at the discretion of the Council, be deprived of the receipt of publications, or stricken from the list of members, when in arrears for one year; *provided*, that such person may be restored to membership by the Council on payment of all arrears, or by re-election after an interval of three years.

#### OFFICERS.

ART. 20. The affairs of the Society shall be managed by a Council, consisting of a President, six Vice-Presidents, nine Managers and a Treasurer, who shall be elected from among

the members and associates of the Society at the annual meetings, to hold office as follows :

ART. 21. The President and the Treasurer for one year (and no person shall be eligible for immediate re-election as President who shall have held that office, subsequent to the adoption of these rules, for two consecutive years); the Vice-Presidents for two years, and the Managers for three years ; and no Vice-President or Manager shall be eligible for immediate re-election to the same office at the expiration of the term for which he was elected. *Provided*, that, at the meeting for organization, the entire board of elective officers and managers shall be chosen, of whom the President, the Treasurer, three Vice-Presidents and three Managers shall serve until the first Thursday of November, 1881; three Vice-Presidents and three Managers shall serve until the first Thursday of November, 1882 ; and three Managers shall serve until the first Thursday of November, 1883. The holding for the several terms shall be determined by lot among them.

ART. 22. A Secretary, who may or may not be a member of the Society, shall be appointed for one year by a majority of the members of the Council at its first meeting after the annual election, or as soon thereafter as the votes of a majority of the members of the Council can be secured for a candidate. The Secretary may be removed by a vote of twelve members of the Council, at any time after one month's notice has been given him by a majority of its members to show cause why he should not be removed, and he has been heard to that effect. The Secretary may take part in any of the deliberations of the Council, but, if not a member of the Society, shall not have a vote therein. His salary shall be fixed for the time he is appointed by a majority vote of the Council.

ART. 23. At each annual meeting after the first, a President, three Vice-Presidents, three Managers, and a Treasurer shall be elected, and the term of office shall continue until the adjournment of the meeting at which their successors are elected.

ART. 24. The duties of all officers shall be such as usually pertain to their offices, or may be delegated to them by the Council or the Society; and the Council may, in its discretion, require bonds to be given by the Treasurer. At each annual meeting, the Council shall make a report of proceedings to the Society, together with a financial statement.

ART. 25. Vacancies in the Council may occur by death or resignation; or the Council may, by vote of a majority of all its members, declare the place of any officer vacant, on his failure for one year, from inability or otherwise, to attend the Council meetings, or perform the duties of his office. All vacancies shall be filled by the appointment of the Council, and any person so appointed shall hold office for the remainder of the term for which his predecessor was elected or appointed. *Provided*, that the said appointment shall not render him ineligible at the next annual meeting.

ART. 26. Five members of the Council shall constitute a quorum; but the Council may appoint an Executive Committee, or business may be transacted at a regularly called meeting of the Council, at which less than a quorum is present, subject to the approval of a majority of the Council, subsequently given in writing to the Secretary, and recorded by him with the minutes.

ART. 27. No bill shall be paid for the Society, until it has been certified by the person authorized to contract it, and audited by the committee on finance.

#### ELECTION OF OFFICERS.

ART. 28. At the regular meeting preceding the annual meeting, a nominating committee of five members, not officers of the Society, shall be appointed, and this committee shall, at least thirty days before the annual meeting, send the names of nominees to the Secretary, who shall at once mail the said list of names to each member and associate, in the form of a letter ballot.

ART. 29. In the election of Vice-Presidents, each member and associate may cast as many votes as there are Vice-Presidents to be elected. He may give all these votes to one candidate, or distribute them among more as he chooses. Managers shall be voted for in the same way.

ART. 30. Any member or associate entitled to vote may vote, by retaining or changing the names on said list, leaving names not exceeding in number the officers to be elected, and returning the list to the Secretary; such ballot enclosed in two envelopes, the inner one to be blank and the outer one to be endorsed by the voter. *Provided*, that no member or associate in arrears since the last annual meeting shall be allowed to vote until said arrears shall have been paid.

ART. 31. The said blank envelopes shall be opened by tellers at the annual meeting, and the persons who shall have received the greatest number of votes for the several offices shall be declared elected.

#### MEETINGS.

ART. 32.\* The annual meeting of the Society shall be held in the city of New York on the first Thursday in November, at which a report of the proceedings of the Society and an abstract of the accounts shall be furnished by the Council; the Council may change the time of the annual meeting, and shall in that case give six months notice to members and associates.

ART. 33. Two other regular meetings of the Society shall be held in each year, at such times and places as the Council may appoint. At least 30 days notice of such meetings shall be mailed by the Secretary to members, honorary members, associates and juniors.

ART. 34. Special meetings may be called, whenever the Council may see fit; and the Secretary shall call a special meeting at the written request of twenty or more members. The notices for special meetings shall state the business to be transacted, and no other shall be entertained.

ART. 35. Any member, honorary member or associate may introduce a stranger to any meeting; but the latter shall not take part in the proceedings without the consent of the meeting.

ART. 36. Every question, which shall come before the Society shall be decided, unless otherwise provided by these rules, by the votes of a majority of the members and associates present, provided there is a quorum.

ART. 37. At any regular meeting of the society, thirteen or more members and associates shall constitute a quorum.

#### PAPERS.

ART. 38. The Council shall have power to decide on the propriety of communicating to the Society any paper which may be received, or to refer it back to its author for revision or amendment, and they shall be at liberty, when they think it

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\* By kind courtesy of the American Society of Civil Engineers, the first regular or annual meeting of this Society will be held in their rooms, 104 East 20th St., New York, on Thursday, November 4, 1880.

desirable, to direct that any paper read before the Society, shall, with the author's consent, be printed.

ART. 39. Intimation, when practicable, shall be given at a general meeting, of the subject of the paper or papers to be read, and of the questions for discussion at the next meeting.

ART. 40. The copyright of all papers communicated to, and accepted by the Society, shall be vested in it, unless otherwise agreed between the Council and the author. *Provided*, that the author shall in no case be deprived of his right to give copies of his papers for publication to any reputable journal, in which he may desire to see them printed after the same shall have been read, but the Society shall not be responsible for such unofficial publication.

ART. 41. The author of each paper read before the society, shall be entitled to twelve copies, if printed, for his own use, and shall have the right to order any number of copies at the cost of paper and printing, *provided*, that said copies are not intended for sale.

ART. 42. The Society is not, as a body, responsible for the statements of fact or opinion, advanced in papers or discussions, at its meetings; and it is understood that papers and discussions should not include matters relating to politics or purely to trade.

#### AMENDMENTS.

ART. 43. These rules may be amended, at any annual meeting, by a two-thirds vote of the members present, *provided*, that written notice of the proposed amendment shall have been given at a previous meeting.











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